

Cost Model Staffing List (CORE)

| Job Title | # of people | Hours |
|------------------------------------------|--------------------|--------------|
| Contract Management Task - CORE | | |
| Technical Engineering Task - CORE | | |
| Systems Engineer II | 1 | 1860 |
| Technical Writer | 1 | 1860 |
| Electrical Engineer III | 2 | 3720 |
| Computer Science Engineer III | 2 | 3720 |
| Mechanical Engineer III | 3 | 5580 |
| Systems Engineer III | 1 | 1860 |
| Machinist III | 1 | 1860 |
| Metal Fabricator III | 1 | 1860 |
| Senior Mission Support Engineer | 1 | 1860 |
| Senior Test Engineer | 3 | 5580 |
| CORE Task Totals | 16 | 29760 |

Cost Model Staffing List (IDIQ)

| Job Title | # of people | Hours |
|------------------------------|--------------------|--------------|
| Test Technician | 1 | 1860 |
| Test Engineer | 1 | 1860 |
| Configuration Manager | 1 | 1860 |
| Project Scheduler | 2 | 3720 |
| Electrical Group, Lead | 1 | 1860 |
| Electrical Engineer Intern | 0.5 | 930 |
| Electrical Engineer I | 1 | 1860 |
| Electrical Engineer II | 2 | 3720 |
| Electrical Engineer III | 3 | 5580 |
| Computer Science Engineer I | 1 | 1860 |
| Computer Science Engineer II | 1 | 1860 |

| | | |
|---------------------------------------|-------------|---------------|
| Computer Science Engineer III | 1 | 1860 |
| Controls Engineer II | 1 | 1860 |
| Controls Engineer III | 1 | 1860 |
| Systems Integration and Test Engineer | 3 | 5580 |
| Mechanical Intern | 0.5 | 930 |
| Mechanical Group, Lead | 1 | 1860 |
| Mechanical Engineer I | 1 | 1860 |
| Mechanical Engineer II | 2 | 3720 |
| Mechanical Engineer III | 2 | 3720 |
| Systems Engineer Intern | 0.5 | 930 |
| Systems Engineer II | 1 | 1860 |
| Systems Engineer III | 2 | 3720 |
| Mission Support Engineer | 7 | 13020 |
| Senior Mission Support Engineer | 2 | 3720 |
| Database Administrator | 2 | 3720 |
| IT Security Expert | 1 | 1860 |
| Network Engineer | 1 | 1860 |
| Metal Fabricator | 1 | 1860 |
| Metal Fabricator III | 2 | 3720 |
| Machine Maintenance Mechanic | 1 | 1860 |
| Machinist | 1 | 1860 |
| Machinist III | 1 | 1860 |
| Total Core and IDIQ | 65.5 | 121830 |

Position Descriptions/ Qualifications

Engineering Intern:

This is a training position for an undergraduate student in mechanical, electrical, computer science, aerospace, systems engineering or a related engineering field.

Engineering Level I:

This is an entry-level engineering position in mechanical, electrical, computer science, aerospace, systems engineering or a related engineering field. It requires a bachelor's degree in the engineering discipline specified and includes fresh-outs through 2 years of engineering experience. This is a general engineering description applicable to all Level I engineering positions specified.

Engineering Level II:

Bachelor's degree or higher in mechanical, electrical, computer science, aerospace, systems engineering or a related engineering field with 5-10 years experience working in the engineering field specified. Specific job experience in structural analysis, thermal analysis, materials science, control systems, mechanical systems, electrical systems, embedded systems, spacecraft systems (communications; power; command and data handling; guidance, navigation and controls), data systems, software development, systems integration & test or related fields may be required. This is a general engineering description applicable to all Level II engineering positions specified.

Engineering Level III:

Includes all Engineering Level II requirements except with 10 or more years experience working in the engineering field specified. This is a general engineering description applicable to all Level III engineering positions specified.

Engineering Group Lead:

Bachelor's degree or higher in mechanical, electrical, computer science, aerospace, systems engineering or related field of engineering with 15 or more years experience working in the engineering field specified. This is a general description applicable to all Engineering Group Lead positions.

Test Technician:

Junior level with related education or work experience of 2-5 years related to the operation and maintenance of an engineering test laboratory, and the conduct of hardware testing for spacecraft or other systems.

Test Engineer:

Mid level with related education or work experience of 5 or more years related to the operation and maintenance of an engineering test laboratory, and the conduct of hardware testing for spacecraft and other systems.

Senior Test Engineer:

Journeyman level with related education or work experience of 10 or more years related to the operation and maintenance of an engineering test laboratory, and the conduct of hardware testing for spacecraft and other systems.

Project Scheduler

Requires formal training and at least 5 years of hands-on experience with the use of Microsoft Project scheduling software for organizing and coordinating all project Integrated Master Schedule (IMS) activities necessary to plan, develop, maintain and report on a project IMS. This includes integrating various detailed level component or Work Breakdown Structure (WBS) schedules into a single and comprehensive Project IMS that is inclusive of all project WBS elements. Experience developing and baselining a project IMS that encompasses the total approved technical scope of work, and accurately models the project team's plan for implementation, consistent with, and correlating to, the project's time phased cost plans is also required. The ability to perform schedule analysis, assessments and evaluation of variances to ensure consistency, accuracy, and timeliness of scheduling information across multiple organizations, contractors, vendors, and geographies performing work is required.

Configuration Manager

Requires a minimum of 5 years of experience providing project configuration and data management support for engineering projects. This position entails overall responsibility for project configuration identification, control, status and accounting, and verification. Oversees proposed changes to project documentation that may affect form, fit, function, cost, or schedule. Establishes project data marking convention for configuration management and administers project level Configuration Change Requests to ensure compliance with project configuration management requirements. Serves as the primary interface between project personnel and the project's Configuration Change Board, ensuring the proper input and processing of configuration changes, control, and distribution of all project generated and deliverable documents and drawings.

Technical Writer:

Requires a Bachelor's degree and a minimum of 5 years experience working as a technical writer in the aerospace industry. Must have good communication skills and be able to work effectively with engineers, technicians, scientists and project managers.

Mission Support Engineer

Bachelor's degree in Computer Science and 5 years minimum relevant experience or equivalent requisite experience. Strong Linux systems administration, troubleshooting, and diagnostic skills. Knowledge of standard networking protocols and services (TCP/IP, NFS, HTTP, rsync) and ability to troubleshoot/diagnose networking issues. Experience designing, implementing, securing, and tuning Linux servers. Strong understanding of computer and network security and best practices across platforms. Must be able to independently lift 50 pounds and to install and maintain server equipment in standard 7-foot tall racks

Senior Mission Support Engineer

Mission Systems Engineer with 10 years of relevant experience, including working in a mission environment.

Database Administrator

Responsible for the installation, configuration, upgrade, administration, monitoring and maintenance of databases used by missions. Includes the development and design of database strategies, monitoring and improving database performance and capacity, and planning for future expansion requirements. Knowledge of Structured Query Language (SQL) required. General understanding of distributed computing architectures (for example, Client/Server, Internet/Intranet, Enterprise). A good understanding of the underlying operating system (e.g., Windows Server 2008, Solaris, Linux, AIX, etc).

Knowledge of Oracle Database.

IT Security Expert

Knowledge of all aspects of FISMA assessment, implementation, and compliance. Gap analysis to full life cycle support. Responsible for maintaining and updating FISMA security plans and developing agreements with mission partners.

Network Engineer

Responsible for service design, delivery, and operations for the Voice, Video, Cable Plant, and Local Area Network functions of the Ames Mission Network. Experience includes service design and delivery and 5-10 years of related IT experience. Thorough understanding of network protocols and routing. Thorough understanding of commonly used network services – DNS, mail, web, etc. as well as less common network services.

Metal Fabricator

Performs prototype fabrication to determine performance characteristics and to check preliminary engineering designs using industry standard techniques. Accomplishes assembly, construction, installation, fabrication, maintenance, operation, repairs and modifications of research apparatus and test facilities. General fabrication skills required include precision sheet metal forming and fastening, various welding skills (e.g. shielded metal, gas metal, flux cored, and gas tungsten arc welding), oxygen

fuel welding and cutting, super high-pressure water jet cutting, nonmetallic composite lay-ups and bonding, and wood construction for product fixturing or containment. Position requires minimum of high school diploma and 3-5 years of work experience in this field.

Metal Fabricator III

Includes all Metal Fabricator requirements except with 10 or more years of work experience in this field.

Machinist

Fabricate steel, aluminum, and occasionally titanium and plastic parts through the application of machine tools, including lathes, mills, band saws, grinders, etc. Reference computerized part models and detail fabrication drawings to construct numerically-controlled component manufacturing programs and assist quality conformance. Support component assembly through installation of helicoils, bushings, bearings, and other semi-permanent features. Utilize gauges, micrometers, calipers, and other precision measuring instruments to confirm component geometry. Minimum high school diploma with at least 3 years of experience providing machine-operated manufacturing support required. Requires familiarity with standard practices and procedures applicable to this field of activity, including safe machine operation, proper machine maintenance, and measuring tool utilization.

Machinist III

Includes all Machinist requirements except with at least 10 or more years of work experience in this field.

Machine Maintenance Mechanic

Maintain and repair machinery, machine tools, and related shop equipment using hoists, hand tools, and power tools. This position also requires the maintenance and care of a few large ground communication antennas at Ames. Safe application, storage, and disposal of lubricants, cooling fluids, desiccants, and cleaning materials is required with good record keeping of equipment maintenance cycles and repair procedures. Position requires a minimum of a high school diploma and 8 years of experience providing maintenance and repair support as specified herein. Familiarity with standard practices and procedures applicable to this field of activity is required.